

What is claimed is:

1. A fluorescent display device wherein light is emitted by impinging a low speed electron beam on a phosphor layer formed on an anode, wherein the phosphor layer comprises a compound containing at least one of P, K and Na.
2. A fluorescent display device wherein light is emitted by impinging a low speed electron beam on a phosphor layer formed on an anode, wherein the phosphor layer comprises a compound containing at least one of P, K and Na and a compound containing W.
3. A fluorescent display device wherein light is emitted by impinging a low speed electron beam on a phosphor layer formed on an anode, wherein the phosphor layer comprises a compound selected from the group consisting of K_3PO_4 , P_2O_5 and Na_2SiO_3 , the compound being added in an amount of 0.01 to 10.00 wt% to the phosphor layer.
4. A fluorescent display device wherein light is emitted by impinging a low speed electron beam on a phosphor layer formed on an anode, wherein the phosphor layer comprises a compound selected from the group consisting of K_3PO_4 , P_2O_5 and Na_2SiO_3 , the compound being added in an amount of 0.01 to 10.00 wt% to the phosphor layer, and another compound

containing W.

5. The device of one of claims 1 to 4, wherein the phosphor layer is a compound containing at least one
5 selected from the group consisting of a (Zn,Mg)O system phosphor, a ZnO:Zn phosphor, $\text{Ln}_2\text{O}_2\text{S:Re}$ (wherein Ln is La, Gd or Lu; and Re is Eu or Tb), ZnGa_2O_4 and $\text{ZnGa}_2\text{O}_4\text{:Mn}$.

6. A phosphor paste comprising:
10 a phosphor containing at least one selected from the group consisting of a (Zn,Mg)O system phosphor, ZnO:Zn, $\text{Ln}_2\text{O}_2\text{S:Re}$ (wherein Ln is La, Gd or Lu; and Re is Eu or Tb), ZnGa_2O_4 and $\text{ZnGa}_2\text{O}_4\text{:Mn}$; and
a compound containing at least one selected from the
15 group consisting of K_3PO_4 , P_2O_5 and Na_2SiO_3 ,
wherein the compound being added in an amount of 0.01 to 10.00 wt% to the phosphor.

7. A phosphor paste comprising:
20 a phosphor containing at least one selected from the group consisting of a (Zn,Mg)O system phosphor, ZnO:Zn, $\text{Ln}_2\text{O}_2\text{S:Re}$ (wherein Ln is La, Gd or Lu; and Re is Eu or Tb), ZnGa_2O_4 and $\text{ZnGa}_2\text{O}_4\text{:Mn}$;
a compound containing at least one selected from the
25 group consisting of K_3PO_4 , P_2O_5 and Na_2SiO_3 , wherein the compound being added in an amount of 0.01 to 10.00 wt% to

the phosphor; and
another compound containing W.